

**New Uses for Inhibitors of Inosine Monophosphate Dehydrogenase**

ABSTRACT OF THE DISCLOSURE

The present invention provides methods of treating cancer using inhibitors of inosine monophosphate dehydrogenase (IMPDH). The IMPDH inhibitors are combined with compounds that inhibit cellular processes regulated by GTP or ATP. Also provided are prodrugs of the IMPDH inhibitor mizoribine and its aglycone. The prodrugs are useful in practicing the methods of the invention, including immunosuppressive therapy and treatment of cancer by prolonged administration without additional therapeutic compounds.

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